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			 Integrated databases for the utility engineering environment Armstrong, J.K.; Rural Electric Power Conference, 1992. Papers Presented at the 36th Annual 3-5 May 1992 Page(s):D1/1 - D1/5 Digital Object Identifier 10.1109/REPCON.1992.178934 			
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4. RDF model and relational metadata

Imai, A.; Yukita, S.;

Advanced Information Networking and Applications, 2003, AINA 2003, 17th Int

Conference on

27-29 March 2003 Page(s):534 - 537

Digital Object Identifier 10.1109/AINA.2003.1192938

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Xian-Sheng Hua; Lie Lu; Hong-Jiang Zhang;

Information, Communications and Signal Processing, 2003 and the Fourth Pac Conference on Multimedia, Proceedings of the 2003 Joint Conference of the Fe

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Volume 1, 15-18 Dec. 2003 Page(s):11 - 15 Vol.1 Digital Object Identifier 10.1109/ICICS.2003.1292403 AbstractPlus | Full Text: PDF(456 KB) IEEE CNF Rights and Permissions

6. Data conversion between IS&C format and DICOM format images in a per

> Ando, Y.; Kawaguchi, O.; Kitamura, M.; Ogasawara, K.; Kubo, A.; Arai, Y.; Image Management and Communications, 1995., Proceedings of the Fourth In Conference on

20-24 Aug. 1995 Page(s):97 - 102

Digital Object Identifier 10.1109/IMAC.1995.532568

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1. Classroom assistant for real-time information retrieval

Wei Jyh Heng; Yu Chen; Zixiang Yang; Qibin Sun;

Information Technology: Research and Education, 2003, Proceedings, ITRE2C

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A composable framework for secure multi-modal access to internet services from Post-PC devices



Steven J. Ross, Jason L. Hill, Michael Y. Chen, Anthony D. Joseph, David E. Culler, Eric A.

October 2002 Mobile Networks and Applications, Volume 7 Issue 5

Publisher: Kluwer Academic Publishers

Full text available: pdf(340.33 KB)

Additional Information: full citation, abstract, references, index terms, review

The Post-PC revolution is bringing information access to a wide range of devices beyond the desktop, such as public kiosks, and mobile devices like cellular telephones, PDAs, and voice based vehicle telematics. However, existing deployed Internet services are geared toward the secure rich interface of private desktop computers. We propose the use of an infrastructure-based secure proxy architecture to bridge the gap between the capabilities of Post-PC devices and the requirements of Internet ser ...

Keywords: internet, middleware, post-PC, security, transcoding

2 A cost-efficient signaling protocol for mobility application part(MAP) in IMT-2000



🙈 systems

Wenye Wang, Ian F. Akyildiz

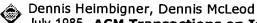
July 2001 Proceedings of the 7th annual international conference on Mobile computing and networking

Publisher: ACM Press

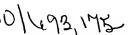
Full text available: pdf(239.98 KB) Additional Information: full citation, abstract, references, index terms

An efficient signaling protocol for mobility application part (MAP) is essential to mobility support when mobile terminals roam between different networks in next generation wireless systems such as IMT-2000. In this paper, a new signaling protocol is proposed to reduce the overhead caused by mobility management, alleviating network load and consumption of network resources. Moreover, the new protocol effectively reduces the latency of call delivery and call loss rate due to crossing wireless ...

A federated architecture for information management



July 1985 ACM Transactions on Information Systems (TOIS), Volume 3 Issue 3



Publisher: ACM Press

Full text available: pdf(2.19 MB)

Additional Information: full citation, abstract, references, citings, index

An approach to the coordinated sharing and interchange of computerized information is described emphasizing partial, controlled sharing among autonomous databases. Office information systems provide a particularly appropriate context for this type of information sharing and exchange. A federated database architecture is described in which a collection of independent database systems are united into a loosely coupled federation in order to share and exchange information. A federation consist ...

A framework for constructing features and models for intrusion detection systems Wenke Lee, Salvatore J. Stolfo



November 2000 ACM Transactions on Information and System Security (TISSEC), Volume 3 Issue 4

Publisher: ACM Press

Full text available: pdf(187.03 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms, review

Intrusion detection (ID) is an important component of infrastructure protection mechanisms. Intrusion detection systems (IDSs) need to be accurate, adaptive, and extensible. Given these requirements and the complexities of today's network environments, we need a more systematic and automated IDS development process rather that the pure knowledge encoding and engineering approaches. This article describes a novel framework, MADAM ID, for Mining Audit Data for Automated Models for Instrusion ...

Keywords: data mining, feature construction, intrusion detection

5 A mechanism for automatic object locking in C++-based object-oriented databases Yong S. Jun, Suk I. Yoo

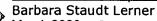


February 1996 Proceedings of the 1996 ACM symposium on Applied Computing **Publisher: ACM Press**

Full text available: ndf(960.91 KB) Additional Information: full citation, references, index terms

Keywords: OODBMS, OODBPL, locking

A model for compound type changes encountered in schema evolution



March 2000 ACM Transactions on Database Systems (TODS), Volume 25 Issue 1

Publisher: ACM Press

Full text available: pdf(430 66 KB)

Additional Information: full citation, abstract, references, citings, index terms

Schema evolution is a problem that is faced by long-lived data. When a schema changes, existing persistent data can become inaccessible unless the database system provides mechanisms to access data created with previous versions of the schema. Most existing systems that support schema evolution focus on changes local to individual types within the schema, thereby limiting the changes that the database maintainer can perform. We have developed a model of type changes involving multiple types ...

Keywords: persistent programming languages, schema evolution

A model of OASIS role-based access control and its support for active security Jean Bacon, Ken Moody, Walt Yao



November 2002 ACM Transactions on Information and System Security (TISSEC), Volume 5 Issue 4

Publisher: ACM Press

Full text available: pdf(352.06 KB)

Additional Information: full citation, abstract, references, citings, index

OASIS is a role-based access control architecture for achieving secure interoperation of services in an open, distributed environment. The aim of OASIS is to allow autonomous management domains to specify their own access control policies and to interoperate subject to service level agreements (SLAs). Services define roles and implement formally specified policy to control role activation and service use; users must present the required credentials, in an appropriate context, in order to activat ...

Keywords: Certificates, OASIS, RBAC, distributed systems, policy, role-based access control, service-level agreements

A normal form for relational databases that is based on domains and keys



Ronald Fagin

September 1981 ACM Transactions on Database Systems (TODS), Volume 6 Issue 3

Publisher: ACM Press

Full text available: pdf(2.19 M3)

Additional Information: full citation, abstract, references, citings, index terms

A new normal form for relational databases, called domain-key normal form (DK/NF), is defined. Also, formal definitions of insertion anomaly and deletion anomaly are presented. It is shown that a schema is in DK/NF if and only if it has no insertion or deletion anomalies. Unlike previously defined normal forms, DK/NF is not defined in terms of traditional dependencies (functional, multivalued, or join). Instead, it is defined in terms of the more primitive concepts of domain and key, along ...

Keywords: DK/NF, anomaly, complexity, database design, domain-key normal form, functional dependency, join dependency, multivalued dependency, normalization, relational database

A shared, segmented memory system for an object-oriented database



Mark F. Hornick, Stanley B. Zdonik

January 1987 ACM Transactions on Information Systems (TOIS), Volume 5 Issue 1

Publisher: ACM Press

Full text available: pdf(2.05 M3)

Additional Information: full citation, abstract, references, citings, index terms, review

This paper describes the basic data model of an object-oriented database and the basic architecture of the system implementing it. In particular, a secondary storage segmentation scheme and a transaction-processing scheme are discussed. The segmentation scheme allows for arbitrary clustering of objects, including duplicates. The transaction scheme allows for many different sharing protocols ranging from those that enforce serializability to those that are nonserializable and require communi ...

10 A survey and analysis of Electronic Healthcare Record standards



Marco Eichelberg, Thomas Aden, Jörg Riesmeier, Asuman Dogac, Gokce B. Laleci December 2005 ACM Computing Surveys (CSUR), Volume 37 Issue 4

Publisher: ACM Press

Full text available: pdf(844.11 KB) Additional Information: full citation, abstract, references, index terms

Medical information systems today store clinical information about patients in all kinds of proprietary formats. To address the resulting interoperability problems, several Electronic Healthcare Record standards that structure the clinical content for the purpose of exchange are currently under development. In this article, we present a survey of the most relevant Electronic Healthcare Record standards, examine the level of interoperability they provide, and assess their functionality in terms o ...

Keywords: Electronic Healthcare Record standards, eHealth, interoperability

11 Aggregate operators in probabilistic databases

Robert Ross, V. S. Subrahmanian, John Grant

January 2005 Journal of the ACM (JACM), Volume 52 Issue 1

Publisher: ACM Press

Full text available: pdf(816.92 KB) Additional Information: full citation, abstract, references, index terms

Though extensions to the relational data model have been proposed in order to handle probabilistic information, there has been very little work to date on handling aggregate operators in such databases. In this article, we present a very general notion of an aggregate operator and show how classical aggregation operators (such as COUNT, SUM, etc.) as well as statistical operators (such as percentiles, variance, etc.) are special cases of this general definition. We devise a formal linear program ...

Keywords: Aggregates, probabilistic relational databases

12 Algebraic query optimisation for database programming languages

Alexandra Poulovassilis, Carol Small

April 1996 The VLDB Journal — The International Journal on Very Large Data Bases,
Volume 5 Issue 2

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(193 10 KB) Additional Information: full citation, abstract, citings, index terms

A major challenge still facing the designers and implementors of database programming languages (DBPLs) is that of query optimisation. We investigate algebraic query optimisation techniques for DBPLs in the context of a purely declarative functional language that supports sets as first-class objects. Since the language is computationally complete issues such as non-termination of expressions and construction of infinite data structures can be investigated, whilst its declarative nature allows th ...

Keywords: Algebraic manipulation, Database management, Database programming languages, Functional languages, Query optimisation

13 Algebraic support for complex objects with arrays, identity, and inheritance

Scott L. Vandenberg, David J. DeWitt

April 1991 ACM SIGMOD Record, Proceedings of the 1991 ACM SIGMOD international conference on Management of data SIGMOD '91, Volume 20 Issue 2

Publisher: ACM Press

Full text available: pdf(1.16 MB) Additional Information: full citation, references, citings, index terms

14 An adaptive data replication algorithm

Ouri Wolfson, Sushil Jajodia, Yixiu Huang

June 1997 ACM Transactions on Database Systems (TODS), Volume 22 Issue 2





Publisher: ACM Press

Full text available: pdf(911 08 KB)

Additional Information: full citation, abstract, references, citings, index terms

This article addresses the performance of distributed database systems. Specifically, we present an algorithm for dynamic replication of an object in distributed systems. The algorithm is adaptive in the sence that it changes the replication scheme of the object i.e., the set of processors at which the object inreplicated) as changes occur in the read-write patern of the object (i.e., the number of reads and writes issued by each processor). The algorithm continuously moves the replication ...

Keywords: computer networks, dynamic data allocation, file allocation, replicated data

15 An application of a context-aware file system

Christopher K. Hess, Roy H. Campbell

December 2003 Personal and Ubiquitous Computing, Volume 7 Issue 6

Publisher: Springer-Verlag

Full text available: 📆 pdf(383,26 KB) Additional Information: full citation, abstract, citings, index terms

Ubiquitous computing environments stretch the requirements of traditional infrastructures used to facilitate the development of applications. Activities are often supported by collections of applications, some of which are automatically launched with little or no human intervention. This task-driven environment challenges existing application construction and data management techniques. In this paper, we describe a file system that organises application data based on contextual information, impo ...

Keywords: Context, Data management, File systems, Operating systems, Ubiquitous computing spaces

An architecture for automatic relational database sytem conversion

Ben Shneiderman, Glenn Thomas

June 1982 ACM Transactions on Database Systems (TODS), Volume 7 Issue 2

Publisher: ACM Press

- Additional Information: full citation, abstract, references, citings, index Full text available: pdf(1,59 M3) terms

Changes in requirements for database systems necessitate schema restructuring, database translation, and application or query program conversion. An alternative to the lengthy manual revision process is proposed by offering a set of 15 transformations keyed to the relational model of data and the relational algebra. Motivations, examples, and detailed descriptions are provided.

Keywords: automatic conversion, database systems, relational model, transformations

17 An axiomatic model of dynamic schema evolution in objectbase systems

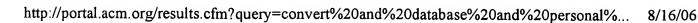
📸 Randel J. Peters, M. Tamer Özsu

March 1997 ACM Transactions on Database Systems (TODS), Volume 22 Issue 1

Publisher: ACM Press

Full text available: pdf(647.83 KB) Additional Information: full citation, references, citings, index terms

Keywords: dynamic schema evolution, object database management systems



18 An extensible query model and its languages for a uniform behavioral object



management system

Randal J. Peters, Anna Lipka, M. Tamer Özsu, Duane Szafron

December 1993 Proceedings of the second international conference on Information and knowledge management

Publisher: ACM Press

Full text available: pdf(1.23 M3)

Additional Information: full citation, references, citings, index terms

19 An overview of three commercial object-oriented database management systems:





ONTOS, ObjectStore, and O2 Valery Soloviev

March 1992 ACM SIGMOD Record, Volume 21 Issue 1

Publisher: ACM Press

Full text available: pdf(1.01 MB)

Additional Information: full citation, abstract, citings, index terms

We present an analysis of three current object-oriented DBMS products: ONTOS, ObjectStore, and O2, as described by their available documentation. The most attractive feature of ONTOS and Object-Store is their use of C++ as a user interface - a widespread object-oriented language. They also provide persistent data implementation, transaction and recovery mechanisms, and modern application development tool sets following the recommendations of [Atkinson et al. 89]. O2 was chosen for a well-de ...

20 An XML query engine for network-bound data

Zachary G. Ives, A. Y. Halevy, D. S. Weld

December 2002 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 11 Issue 4

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(351.86 KB) Additional Information: full citation, abstract, citings, index terms

XML has become the lingua franca for data exchange and integration across administrative and enterprise boundaries. Nearly all data providers are adding XML import or export capabilities, and standard XML Schemas and DTDs are being promoted for all types of data sharing. The ubiquity of XML has removed one of the major obstacles to integrating data from widely disparate sources - namely, the heterogeneity of data formats. However, general-purpose integration of data across the wide are a also re ...

Keywords: Data integration, Data streams, Query processing, Web and databases, XML

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